PERMIT NO. HI S000005

AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. 1251 et. seq.; the "Act"); Hawaii Revised Statutes, Chapter 342D; and Hawaii Administrative Rules (HAR), Department of Health (DOH), State of Hawaii, Chapters 11-54 and 11-55;

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
AIRPORTS DIVISION
(PERMITTEE)

is authorized to discharge storm water runoff and certain non-storm water discharges as identified in Part B.2 of this permit from the Department of Transportation (DOT), Airports Division's (DOT-AIR) Small Municipal Separate Storm Sewer System (Small MS4) at the Honolulu International Airport (HNL), and additional storm sewer outfalls that may be identified from time to time by the Permittee,

into Manuwai Canal, Kaloaloa Canal, Mamala Bay, Keehi Lagoon, and the Reef Runway Marine Pond adjacent to the HNL, Island of Oahu,

in accordance with the general requirements, discharge monitoring requirements, and other conditions set forth herein, and in the attached DOH "Standard NPDES Permit Conditions," dated December 30, 2005.

All references to Title 40 of the Code of Federal Regulations (CFR) are to regulations that are in effect on July 1, 2004, except as otherwise specified. Unless otherwise specified herein, all terms are defined as provided in the applicable regulations in Title 40 of the CFR.

This permit will become effective on _____.

This permit and the authorization to discharge will expire at midnight, **June 1, 2011**.

Signed this ___ day of _____, 2006.

_____
(for) Director of Health

TABLE OF CONTENTS

A. GENERAL REQUIREMENTS

The Permittee shall:

1. Comply with all materials submitted in and with the following:

   a. Reapplication (consisting of the *Fiscal Year 2004-2005 Annual Report* and the Signatory and Certification Statement to NPDES Permit Applications, dated September 26, 2005, for coverage under an NPDES permit for the HNL Small MS4) received on October 6, 2005, by DOT memo (AIR-OME 05.195), dated September 29, 2005; and

   b. The DOT-AIR revision to Section 3 of the End-of-Year Report, dated April 6, 2006 (AIR-E 06.0003), received on April 17, 2006.

2. Retain a copy of this permit and all other related materials and the Storm Water Management Program (SWMP), with all subsequent revisions, at the DOT-AIR, HNL office.

3. Ensure that anyone working under this permit complies with the terms and conditions of this permit.

4. Include the permit number, **HI S000005**, and the following certification with all information required under this permit:

   "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

5. Submit all information required under this permit to the following addresses:

   i. Director of Health
   Clean Water Branch
   Environmental Management Division
   Department of Health
   P.O. Box 3378
   Honolulu, HI 96801-3378

b. Regional Administrator
U.S. Environmental Protection Agency, Region 9
Attention: WTR-7; NPDES/DMR
75 Hawthorne Street
San Francisco, CA 94105-3901

B. DISCHARGE LIMITATIONS

1. The Permittee shall effectively prohibit non-storm water discharges through its separate storm sewer system into State Waters. NPDES permitted discharges and non-storm water discharges identified in Part B.2 of this permit are exempt from this prohibition.

2. The following non-storm water discharges may be discharged into the Permittee's separate storm sewer system without an NPDES permit provided that the Permittee determines that such discharges will not contain pollutants in amounts that will cause or contribute to a violation of an applicable water quality standard and the SWMP shall "identify and ensure the implementation of appropriate pollution prevention measures for the non-storm water component(s) of the discharge."

   a. Water line flushing;
   b. Landscape irrigation and irrigation water, excluding run-off from commercial agriculture;
   c. Diverted stream flows;
   d. Rising ground waters;
   e. Uncontaminated ground water infiltration (as defined in 40 CFR §35.2005(20));
   f. Uncontaminated pumped ground water, **not including construction related dewatering activities**;
   g. Discharges from potable water sources, including emergency eye wash basins and showers, drinking fountains, and foundation drains;
   h. Air conditioning condensate;
   i. Springs;
   j. Water from crawl space pumps, including discharge from buildings with basements, and crawl space pumps used by utility companies to dewater utility manholes and other maintenance and operating substructure facilities, and footing drains;
   k. Lawn watering runoff;
   l. Water from individual residential car washing;
   m. Water from charity car washes;
   n. Flows from riparian habitats and wetlands;
   o. Dechlorinated swimming pool discharges;
   p. Exterior building wash water (water only);
   q. Residual street wash water (water only), including wash water from sidewalks, plazas, and driveways, but excluding parking lots;
   r. Discharges or flows from fire fighting activities; and
   s. Water from the Japanese, Chinese, and Hawaiian garden water features located within the International Terminal Complex, not including any water feature cleaning effluent.

3. The Permittee may also develop a list of other similar occasional incidental non-storm water discharges (e.g. non-commercial or charity car washes, etc.) that will not be addressed as illicit discharges. These non-storm water discharges must not be reasonably expected (based on information available to the Permittee) to be significant sources of pollutants to the Small MS4, because of either the nature of the discharges or conditions the Permittee has established for allowing these discharges to the Small MS4 (e.g., a charity car wash with appropriate controls on frequency, proximity to sensitive waterbodies, Best Management Practices (BMPs) on the wash water, etc.). The Permittee shall document in the storm water management program any local controls or conditions placed on the discharges, and include a provision prohibiting any individual non-storm water discharge that is determined to be contributing pollutants to the Small MS4.

4. The discharge of pollutants from storm water runoff from areas of industrial activity shall be reduced using the "**best available technology economically achievable (BAT)**" and the "**best conventional pollution control technology (BCT)**" standards as required by HAR, Chapter 11-55, Section 11-55-15(b)(1) and 40 CFR §125.3.

5. The discharge of pollutants from all other areas of the Permittee's facility shall be reduced to the "**maximum extent practicable (MEP)**" as required by the Act Section 402(p)(3)(iii) and 40 CFR §122.26(d)(2)(iv).

C. RECEIVING WATER LIMITATIONS

1. The discharge shall comply with the basic water quality criteria which states:

   "All waters shall be free of substances attributable to domestic, industrial, or other controllable sources of pollutants, including:

   (1) Materials that will settle to form objectionable sludge or bottom deposits;
   (2) Floating debris, oil, grease, scum, or other floating materials;
   (3) Substances in amounts sufficient to produce taste in the water or detectable off-flavor in the flesh of fish, or in amounts sufficient to produce objectionable color, turbidity or other conditions in receiving waters;
   (4) High or low temperatures; biocides; pathogenic organisms; toxic, radioactive, corrosive, or other deleterious substances at levels or in combinations sufficient to be toxic or harmful to human, animal, plant, or aquatic life, or in amounts sufficient to interfere with any beneficial use of the water;
   (5) Substances or conditions or combinations thereof in concentrations which produce undesirable aquatic life; and
   (6) Soil particles resulting from erosion on land involved in earthwork, such as the construction of public works; highways; subdivisions; recreational, commercial, or industrial developments; or the cultivation and management of agricultural lands."

2. The discharge shall not cause or contribute to a violation of any of the applicable beneficial uses or water quality objectives contained in HAR, Chapter 11-54, titled "Water Quality Standards."

3. The Permittee shall timely inspect the receiving state waters, effluent, and control measures and BMPs to detect violations of and conditions which may cause violations of the basic water quality criteria as specified in HAR, Chapter 11-54, Section 11-54-4. (e.g., the Permittee shall look at effluent and receiving state waters for turbidity, color, floating oil and grease, floating debris and scum, materials that will settle, substances that will produce taste in the water or detectable off-flavor in fish, and inspect for items that may be toxic or harmful to human or other life.)

4. The Permittee shall immediately take action to stop, reduce, or modify the discharge of pollutants as needed to stop or prevent a violation of the basic water quality criteria as specified in HAR, Chapter 11-54, Section 11-54-4.

D. STORM WATER MANAGEMENT PROGRAM (SWMP)

The Permittee shall:

1. Continue to implement, update, and enforce the Storm Water Management Program (SWMP) designed to address the requirements of this permit and limit, to the MEP, the discharge of pollutants to and from its Small MS4 to protect water quality and to satisfy the appropriate water quality requirements of the Act. The SWMP shall be updated and modified per the requirements of this permit and shall be submitted to DOH and EPA within one (1) year from the effective date of this permit, or as otherwise specified, and shall fully implement the SWMP upon submittal to DOH and EPA. The Permittee shall continue to implement the existing SWMP until submittal of the revision. The SWMP and any of its revisions, additions, or modifications are enforceable components of this permit.

   The SWMP shall include the following information for each of the SWMP components described in Part D.1.a. - D.1.h. below:

   - The BMPs, plus underlying rationale, that shall be implemented for each of the program components.

   - The measurable standards and milestones for each of the BMPs, plus underlying rationale, including interim measures to aid in determining level of effort and effectiveness of each program component.

   - The name or position title and affiliation of the person or persons responsible for implementation or coordination of each program component.

   - Monitoring to determine effectiveness of Wasteload Allocation (WLA) controls and of the overall storm water program.

   a. Public Education and Outreach

      The Permittee shall continue to implement an annual education program for the following Targeted Groups and General Public. The SWMP shall include a written public education plan for how the Permittee will reach all targeted audiences and implement the permit requirements described below.

(1) *Targeted Groups*. The Permittee shall address the following targeted groups in the public education plan, and shall describe outreach activities and anticipated frequencies that each activity will be conducted over the permit term:

- DOT-AIR employees
- DOT-AIR consultants
- DOT-AIR tenants not meeting the definition of industrial activities under 40 CFR §122.26(b)(14)
- DOT-AIR tenants (industrial facilities) covered by the NPDES permit program
- Construction Contractors on DOT-AIR property
- Any other source that the Permittee determines may contribute a significant pollutant load to its Small MS4

(2) *General Public*. The Permittee shall include in the public education plan the following activities, with anticipated frequencies that each activity will be conducted over the permit term:

- Public Service Announcements (PSAs)
- Distribution of brochures or fact sheets and alternative information sources with the telephone numbers to use to report illegal discharges to the DOT-AIR Small MS4 (e.g., posters, magnets, stickers, etc.).
- Participation in special events (e.g., storm drain stenciling programs, community clean-ups, citizen watch groups, and "Adopt-A-Storm Drain" programs) and exhibits.
- Web site
- Pesticides, herbicides, and fertilizer use program
- Training for the Target Group, etc. on pollution prevention BMPs in the SWMP.
- Forming partnerships with all HNL tenants and the general public to fulfill the requirements of this program.
- Incorporating public meetings/citizen panels to discuss storm water management policies.
- Distribute brochures and guidances on a hazardous waste information, awareness, and recycling program to promote awareness of proper disposal and handling of commonly dumped "household type" hazardous waste (e.g., used motor oil, antifreeze, pesticides, and other toxics) within HNL for wastes.

(3) *Annual Survey*. The Permittee shall evaluate the progress of the public education program by conducting an annual survey of HNL employees

and tenants to measure both behavior and knowledge relating to storm water. The results of the survey, with a comparison to past surveys, as applicable, shall be summarized in the End-of-Year Report.

b. Public Involvement/Participation

The Permittee shall include the public in developing, reviewing, and implementing the SWMP. The draft SWMP shall be made available to the public on the DOT-AIR Website and at local offices. An informational meeting shall be scheduled and announced prior to finalizing the SWMP to solicit comments and answer questions from the public. Other activities to involve the public might include organizing a citizen advisory group to solicit ongoing input from the public about changes to the SWMP and specific SWMP-related projects, or organizing water quality-focused clean-up events to educate the public about storm water impacts from airports.

c. Illicit Discharge Detection and Elimination

(1) Illicit Connection / Illegal Discharge Elimination Program Plan

(a) *Identification of Illicit Connections and/or Illegal Discharges* - The Permittee shall revise its SWMP to include procedures for the identification of and response to possible illicit connections and illegal discharges. These procedures shall include, but not be limited to, specific time deadlines for responding to identified discharges.

(b) *Licenses for private drain connections*. The Permittee shall require a permit or approval for private drain connections and discharges of sheet flow from industrial and/or construction activities to the DOT-AIR Small MS4 and maintain a database of all approved connections and discharges to its Small MS4. The Annual Report shall include a table showing the facilities with permitted connections and/or discharges (via sheet flow from industrial and/or construction activities) to the DOT-AIR Small MS4.

(c) *Field Screening*. The Permittee shall include a written plan for observing major and minor outfalls to screen for improper discharges. The plan shall designate priority areas for screening, specify the frequency for screening, and identify the procedures to be followed if a discharge is observed. The field screening plan shall be submitted to DOH within one (1) year of the effective date of this permit.

(d) *Investigate complaints*. The Permittee shall promptly investigate observed, suspected, or reported illicit flows and pursue enforcement actions, as appropriate. To assist in this effort, within one (1) year of the effective date of this permit, the Permittee shall:

(i) Develop a database to identify improper discharge activity by DOT-AIR Property ID Number. The database shall include information about each suspected improper discharge, the Permittee's investigation of that discharge, follow-up activities, and the resolution of each discharge;

(ii) Implement a program to facilitate public reporting of illicit discharges (e.g., environmental hotline and/or website for reporting); and

(iii) Develop and implement a response plan to be consistent with the requirements in this permit.

(e) *Enforcement*. The Permittee shall ensure compliance with local ordinances and pursue enforcement actions against property owners with illegal drain connections and persons illegally discharging pollutants to its Small MS4 through remediation and/or removal of the discharge.

(f) *Prevent and Respond to Spills to the DOT-AIR Small MS4.* The Permittee shall continue to assess the potential for hazardous and other deleterious material spills into the DOT-AIR Small MS4. Based on this assessment, the Permittee shall identify industries, activities, or areas that need to be targeted for spill prevention education. The Permittee shall work with the Aircraft Rescue Fire Fighting (ARFF) Crew and other emergency response teams to provide such education. This program shall be included in the SWMP within one (1) year of the effective date of this permit.

The Permittee shall continue to implement procedures for information sharing between the Permittee, the ARFF Crew and other emergency response teams. The Permittee shall monitor and track all spills to the storm sewer system, with the purpose of identifying problematic (e.g., reoccurring) areas or activities.

The Permittee shall develop and implement a procedure whereby DOH is notified of all wastewater spills or overflows from private laterals and failing septic systems into their Small MS4. The

Permittee shall prevent, respond to, contain, and clean up wastewater from any such notification.

(g) *Facilitate Disposal of Used Oil and Toxic Materials*. The Permittee shall implement or continue to implement a program(s) to facilitate the proper management and disposal or recycling of used oil, vehicle fluids, toxic materials, and other household hazardous wastes. Such a program shall include educational activities, public information activities, and identification of collection sites or methods. The program(s) shall be implemented within one (1) year of the effective date of the permit.

(h) *Tracking* - The Permittee shall maintain a database of illicit connections, illegal discharges, and spills that tracks the type of discharge, responsible party, DOT-AIR response, and resolution of the discharge to the Small MS4.

(i) *Training* - The Permittee shall develop and provide training within one (1) year of the effective date of this permit, and annually thereafter, to staff on identifying and eliminating illicit connections, illegal discharges, and spills to the Small MS4. This training shall be specific to DOT-AIR activities, policies, and procedures.

d. Construction Site Runoff Control

(1) *Plan Review and Approval* - The Permittee shall continue to implement procedures for the receipt and consideration of public inquiries, concerns, and information submitted regarding construction activities within HNL property. The Permittee shall:

(a) Not allow construction to commence on any contract or in-house permit project unless and until it has verified that the project has received from DOH a Notice of General Permit Coverage (NGPC) under HAR, Chapter 11-55, Appendix C, NPDES General Permit Authorizing the Discharge of Storm Water Associated with Construction Activity (General Construction Activity Storm Water permit) (unless the project will disturb less than one (1) acre of land) and satisfied any other applicable requirements of the NPDES permit program (e.g., an individual NPDES permit);

(b) Review Environmental Assessments (EAs) and Environmental Impact Statements (EISs) prepared for new developments or areas of significant redevelopment in the HNL or its vicinity to ensure that storm water pollution reduction measures are included in the

development or redevelopment. As necessary, implement and update criteria to guide the construction of storm water detention/retention structures or other structural facilities designed to limit storm water pollution.

(c) Ensure that, prior to issuing a connection or discharge permit requiring coverage under the General Construction Activity Storm Water permit and/or any other applicable requirements of the NPDES permit program, the project operator has provided proof of filing a Notice of Intent (NOI) or NPDES application for permit coverage and that a Construction BMPs Plan has been prepared;

(d) Review the applicable Site-Specific BMPs Plan to verify that it fully meets all requirements of DOT-AIR's Standard Specifications and/or Special Provisions (SSPs), the General Construction Activity Storm Water permit, and any other requirements under the NPDES permit program, as applicable. The contractor shall implement Site-Specific BMPs to reduce storm water pollution caused by any construction activities within the HNL; and

(e) Submit a table in the Annual Report showing the name and start date of any construction projects on HNL property which cause land disturbances and/or were covered by an NGPC. If the construction project is covered by an NGPC, also provide the NGPC File number.

Within 180 days of the effective date of this permit, the Permittee shall develop and submit for approval a checklist that its reviewers shall use in evaluating the BMP Plans pursuant to this paragraph. Copies of this checklist shall be provided to applicants for permits and to construction contractors for their use in developing construction BMPs for DOT-AIR-contracted construction projects.

(2) *Standard Specifications and/or Special Provision Revision* - The Permittee shall revise its SSPs to require use of the current edition of the City's "Best Management Practices Manual for Construction Sites in Honolulu," (City BMP Manual) and the City's "Rules for Soil Erosion Standards and Guidelines," on all contract, in-house, and permit construction projects in Oahu. The Permittee shall incorporate these revised SSPs, either explicitly or by reference, into its revised SWMP.

(3) *Construction Site BMPs* - The Permittee shall revise the listing and description of Construction Activity BMPs in its SWMP to include, at a minimum, the BMPs as contained and described in the City BMP Manual.

(4) *Construction BMP Field Manual* - Within 180 days of the effective date of the permit, the Permittee shall develop and submit for approval a Construction BMPs field manual describing various construction storm water BMPs installation and maintenance procedures. The DOT-AIR shall continue to use the existing field checklist during the development of the Construction BMPs field manual. After submittal, the DOT-AIR shall implement the Construction BMPs field manual. After approval, a copy of this Construction BMPs field manual shall be provided to all DOT-AIR field staff involved in construction and/or erosion control projects (contract and/or in-house [e.g., Maintenance Division] permit).

(5) *Training* - The Permittee shall provide annual training on the Construction BMPs Program Plan to all DOT-AIR staff with construction storm water responsibilities, including construction engineers, maintenance staff, and plan reviewers. This training shall be specific to DOT-AIR activities (including the proper installation and maintenance of approved BMPs), policies, and procedures.

(6) *Initial Construction Inspections* - Prior to the initiation of ground-disturbing activities at any site, except for activities associated with the installation of BMPs at a site, an engineer or qualified inspector employed or retained by the Permittee who reviews and becomes familiar with the BMPs Plan, shall inspect the site to document whether the BMPs required by the BMPs Plan have been installed correctly and in the correct locations prior to the commencement of ground-disturbing activity.

(7) *Inspections and Enforcement* - The Permittee shall revise its SWMP to specify mandatory minimum project inspection and enforcement requirements for DOT-AIR inspectors at all construction sites. In addition to inspections required by the General Construction Activity Storm Water permit, and as otherwise required under the NPDES permit program, all in-house and contract construction projects shall be inspected at least monthly by a qualified construction inspector who is independent (e.g., not involved in the day-to-day planning, design, or implementation) of the construction projects to be inspected. The Permittee may use more than one (1) qualified construction inspector for these inspections. The Permittee shall develop and implement a standard inspection form and reporting procedures for use in these inspections. The inspection form shall include, at a minimum, a checklist for the proper installation of BMPs specified in the BMP plan. The reporting procedures shall include, at a minimum, notification of any deficiencies to the DOH. The Permittee shall further develop and implement written procedures for appropriate

corrective actions and follow-up inspections when an inspected project is not in full compliance with the NPDES permit, the General Construction Activity Storm Water permit, or any other applicable requirements under the NPDES permit program. These enforcement procedures shall be submitted to DOH for review and acceptance within one (1) year of the effective date of this permit.

e. Post-Construction Storm Water Management in New Development and Redevelopment

(1) *Develop design criteria* - Within one (1) year of the effective date of this permit, the Permittee shall develop, submit, and implement a Post Construction BMP Manual with specific criteria establishing when permanent post-construction BMPs (e.g., permanent detention/retention structures, etc.) must be included in project design to address storm water impacts and pollutants of concern. These criteria shall take into consideration, among other things, potential water quality impacts anticipated from the permanent post-construction conditions. Permanent post-construction BMPs to be considered shall include those designed to treat storm water runoff and other structural type devices.

(2) *Project Design Review* - The Permittee shall not advertise any construction project nor award any construction contract unless and until the project design has been reviewed to ensure that appropriate permanent post-construction BMPs have been included in the project design and are included in the bid package. No project shall proceed without the inclusion of appropriate permanent post-construction BMPs unless there is specific documentation demonstrating that such post-construction BMPs are not practicable. Project documents for projects that will include installation of permanent post-construction BMPs shall also include appropriate requirements for their future continued maintenance.

(3) *SWMP Revisions* -The Permittee shall revise its SWMP as applicable to:

(a) Require installation and appropriate maintenance of permanent post-construction BMPs, where applicable, on all New Development and Significant Redevelopment projects that the Permittee undertakes.

(b) Include the following permanent post-construction BMPs in the SWMP: infiltration basins, infiltration trenches, media filters, Continuous Deflective Separation (CDS) units, and other similar technologies.

(4) *BMP, Operation and Maintenance, and Inspection Database* - Within two (2) years of the effective date of this permit, the Permittee shall develop and implement a system to compile a database of post-construction BMPs and the frequency of maintenance and inspection of the BMPs. The database shall include both public and private activities or projects which initially discharge into the Permittee's Small MS4 and shall begin in the plan review stage with a database or geographic information system (GIS). Within the permit renewal application, the Permittee shall provide the plan to map the post-construction BMPs on the GIS. In addition to the standard information collected for all projects (e.g., project name, owner, location, start/end date, etc.), the database shall also include, at a minimum:

- Type and number of Source Control BMPs
- Type and number of Treatment Control BMPs
- Latitude/Longitude coordinates of controls using Global Positioning Systems (GPS) and NAD83 Datum
- Photographs of controls
- Operation and maintenance requirements, including frequency
- Frequency of inspections

(5) *Retrofit Feasibility Study* - The Permittee shall complete a feasibility study to retrofit the existing Small MS4 discharging to receiving waters listed pursuant to Section 303(d) of the Act for either sediment, siltation, turbidity, and/or trash. The retrofits may include water quality BMPs to meet State Water Quality Standards. A detailed scope of the feasibility study shall be submitted to DOH within one (1) year of the effective date of this permit. A final feasibility study shall be submitted to DOH within three (3) years of the effective date of this permit. The Permittee shall work with the Army Corps of Engineers, as necessary, to improve the storm water quality features of flood control structures and the DOT-AIR Small MS4.

(6) *Education and Training*

(a) *Project Proponents*. Within one (1) year of the effective date of this permit, the Permittee shall provide education and outreach material for those parties who apply for DOT-AIR permit (e.g., developers, engineers, architects, consultants, construction contractors, excavators, and property owners) on the selection, design, installation, operation and maintenance of storm water treatment controls. The outreach material may include a simplified flowchart

for thresholds triggering permits and requirements, a list of required permits, implementing agencies, fees, overviews, timelines and a brief discussion of potential environmental impacts associated with storm water runoff.

(b) The Permittee shall provide annual training to all DOT-AIR staff with project design and construction storm water responsibilities, including design engineers, construction engineers, and plan review staff, specific to DOT-AIR activities, policies, and procedures and shall include training on the DOT-AIR Post Construction BMP Manual.

f. Pollution Prevention/Good Housekeeping

(1) Debris Control BMPs Program Plan

(a) *Inspection/Maintenance Schedule* - The Permittee shall revise its SWMP to include procedures and a schedule for inspections of the following:

(i) Storm drainage system catch basins, gutters and open ditches, trenches, and storm drains for the purpose of identifying if cleaning of such structures is needed. Inspections, maintenance and cleaning shall be done as necessary and at least twice per year. Maintenance logs shall include the date, quantity and type of debris the contractor removed from the vicinity of the surface water booms. Inspection logs shall include the date, identification number, and inspection results of storm drain nodes and absorbent booms. Maintenance logs shall include the date, quantity and type of debris the contractor removed from Keehi Lagoon near the Aircraft Rescue Fire Fighting Station.

(ii) Storm water retention basins. Inspections shall be done annually and maintenance shall be performed semi-annually. At a minimum, one inspection shall be performed before November 1st of each year.

(iii) Runways/taxiways, major streets, and streets in the industrial and commercial areas for sweeping and litter pickup as specified in the SWMP or at least twice per month. Indicate how and where the sweepings are disposed.

(iv) Roads for repairs as specified in the SWMP.

The Annual Report shall include a table showing the date, quantity and type of swept material, identification of swept runway/taxiway and street sweeping, and reports of road inspection problems and/or repairs.

(b) *Storm Drain Mapping* - The Permittee shall update, as necessary, the mapping of its Small MS4 including outfalls, storm drain pipes, open channels, storm drainage features, and facilities.

(c) *Asset Management System* - The Permittee shall continue to maintain a comprehensive asset management system of the DOT-AIR Small MS4 and related appurtenances including maintenance equipment, to ensure appropriate debris removal and system maintenance. The asset management system shall, at a minimum, include identification of the number and location of all drain inlets and outfalls. The Permittee shall use this asset management system to establish priorities and to schedule and track efforts of appropriate system maintenance and debris removal program activities such as street sweeping, catch basin cleaning, and green waste and accumulated soil removal. The asset management system shall include justification of its priorities on the basis of potential impacts to water quality.

(d) *Storm Drain Placards* - The Permittee shall revise its SWMP to develop procedures and a schedule to install and maintain storm drain placards. Priority shall be given to the Permittee's industrial and commercial areas and areas with pedestrian traffic. The Permittee shall develop a system to track placement of placards and procedures for maintenance staff to inspect placards during routine maintenance activities.

(2) Chemical Applications BMPs Program Plan

(a) *Training* - The Permittee shall develop and implement a specific training program for all potential appliers (bulk and hand-held) of fertilizers, pesticides, and herbicides in the proper application of these substances. The Permittee shall not permit the application of fertilizers, pesticides, or herbicides unless the applier has first received this training.

(b) *Implement appropriate requirements for pesticide, herbicide, and fertilizer applications*. The Permittee shall revise its SWMP and implement BMPs to reduce the contribution of pollutants associated with the application, storage, and disposal of pesticides, herbicides, and fertilizers from municipal areas and activities to its Small MS4 within one (1) year of the effective date of this permit. Municipal areas and activities include, at a minimum, municipal facilities, public right-of-ways, and landscaped areas.

Such BMPs shall include, at a minimum: (1) educational activities, permits, certifications and other measures for municipal applicators; (2) integrated pest management measures that rely on non-chemical solutions; (3) the use of native vegetation; (4) chemical application, as needed; and (5) the collection and proper disposal of unused pesticides, herbicides, and fertilizers.

The Permittee shall ensure that their employees or contractors or employees of contractors applying registered pesticides, herbicides, and fertilizers shall work under the direction of a certified applicator, follow the pesticide label, and comply with the State requirements. All Permittee employees or contractors applying pesticides, herbicides or fertilizers shall receive training on the BMPs annually.

(c) The Permittee shall continue to evaluate the extent and magnitude of fertilizer and pesticide runoff, including golf courses, into the DOT-AIR Small MS4, especially those parts of the system that discharge to the Mamala Bay and Keehi Lagoon. If significant sources are identified, the Permittee shall develop and implement control measures for these sources.

(d) The Annual Report shall include a table showing date, quantity of pesticide/herbicide/fertilizer, application location, and applicable BMPs used during the application.

(3) Maintenance Facilities BMPs Program Plan

(a) *Vehicle Baseyard Plans* - For each maintenance baseyard, the Permittee shall continue to implement and update a site-specific Storm Water Pollution Control Plan (SWPCP) (formerly known as BMPs) to minimize the discharge of pollutants in storm water runoff

and to maintain compliance with conditions of this permit. An individual at each facility (e.g., yard foreman) shall be charged with ensuring implementation of the SWPCP. This individual shall be trained to conduct inspections and identify areas for BMPs improvement. To ensure consistency and provide assistance and oversight, the Permittee shall identify an individual, also trained to conduct inspections and identify areas for BMPs improvement and independent of any specific baseyard, who shall conduct inspections of all baseyards at least quarterly. The Permittee shall submit the updated site-specific SWPCP for each maintenance baseyard within 180 days of the effective date of this permit. The SWPCP shall include:

(i) A detailed site plan
(ii) Site description
(iii) Facility layout
(iv) Pollutants potentially present in storm water
(v) Pollutant sources (including but not limited to the identification of non-storm water sources connected to the storm drainage system)
(vi) Storm water outfalls and monitoring points in the Storm Water Monitoring Plan
(vii) Monitoring procedures in the Storm Water Monitoring Plan
(viii) Maintenance BMPs
(ix) Inspection procedures
(x) Spill prevention and response procedures
(xi) Rules and regulations to prevent the discharge of pollutants into the DOT-AIR Small MS4.

(b) *Maintenance BMPs* - The Permittee shall develop and implement a written set of maintenance BMPs for routine and emergency in-house activities within 90 days of the effective date of this permit. Activity specific BMPs shall be organized as a manual and be created in a format that facilitates its use by field staff (e.g., field friendly). It shall be distributed to all field staff and shall complement the overall goals of the SWMP. The Annual Report shall include records showing the implementation and/or maintenance of the BMPs, the effectiveness of the BMPs and how the effectiveness of the BMPs is determined.

(c) *Training* - The Permittee shall develop and implement a formal storm water awareness training program for HNL Maintenance Facility supervisors and staff that identifies potential sources of pollution, general BMPs that can be used to reduce and/or eliminate such sources, and specific BMPs for their facilities and activities. The training program shall identify why certain BMPs included in the training document tables are not applicable to the facilities and activities. The training shall incorporate components of the public education campaign and educate staff that they serve a role in protecting water quality. Maintenance supervisors and staff shall be made aware of the NPDES permit, the overall SWMP, the SWPCP for their baseyard, and the applicable BMPs Program(s). The training shall be developed and submitted to DOH for review and acceptance within two (2) years of the effective date of this permit. Permittee maintenance staff shall receive training within three (3) years of the effective date of this permit, and annually thereafter.

g. Industrial and Commercial Activities Discharge Management Program

The Permittee shall develop and implement an industrial and commercial discharge management program to reduce to the MEP the discharge of pollutants from all industrial and commercial facilities and activities which initially discharge into the Permittee's Small MS4. At a minimum, the program shall include:

(1) *Inventory and Map of Industrial Facilities and Activities*. The Permittee shall update and submit, in electronic and paper format, the industrial facilities and activities inventory (industrial inventory), sorted by HNL Property ID Number, and map of such facilities and activities discharging, directly or indirectly, to its Small MS4 within the 4th End-of-Year Report (also known as the permit renewal application).

The industrial inventory shall include the facility name, street address, TMK or HNL Property ID Number, nature of business or activity, Standard Industrial Classification (SIC) code(s) that best reflect the facility product or service, principal storm water contact, receiving State water, and whether a Notice of General Permit Coverage (NGPC) under HAR, Chapter 11-55, Appendix B, NPDES General Permit Authorizing the Discharge of Storm Water Associated with Industrial Activities (General Industrial Storm Water permit) or NPDES Conditional "No Exposure" Exclusion or any other applicable NPDES permit has been

obtained, including an NPDES Permit or NGPC File Number, issuance date, expiration date, and administrative extension date.

(2) *Inventory and Map of Commercial Facilities and Activities*. The Permittee shall update and submit, in electronic and paper format, the commercial facilities and activities inventory (commercial inventory), sorted by priority areas, and map of such facilities and activities discharging, directly or indirectly, to its Small MS4 within the permit renewal application.

The commercial inventory shall include, by priority area, the facility name, street address, TMK or HNL Property ID Number, nature of business or activity, SIC code(s) that best reflect the facility product(s) or service(s), principal storm water contact, and receiving State water.

At a minimum, the commercial inventory shall include facilities and activities such as:

- Findings from follow-up investigations of the commercial facilities identified in the Questionnaire Survey
- Retail Gasoline Outlets
- Retail Automotive Services, including Repair Facilities
- Restaurants
- Any other commercial facility that either the Permittee or DOH determines is contributing pollutants to the DOT-AIR Small MS4 that may cause or contribute to an exceedance of State water quality standards.

(3) *Survey of Industrial and Commercial Facilities and Activities*

The Permittee shall distribute an annual environmental survey of all industrial facilities for the following, as applicable: above ground storage tanks, mobile storage tanks, underground storage tanks (active or closed), mobile solvent recovery sites, spill response materials/kits locations, drum storage sites, paint booth sites, hazardous materials storage sites, vehicle wash sites, oil/water separators, aircraft/vehicle maintenance, waste storage area (which includes sub categories of drums, batteries, and solvent recovery systems), pre-treatment units (oil/water separators, and retention basins), hazardous material storage sites (includes sub categories of drums, cases, etc.), etc.

At the end of each permit year (using the annual environmental survey which is completed by each of the industrial facilities), the list of tenants

and activities shall be reviewed and evaluated for possible additions or changes in the monitoring points. The Annual Report shall include:

(a) A table which shows the year of closure of the "Closed Underground Storage Tanks;"

(b) Figure(s) (plan view) showing the locations where mobile storage tanks are used or stored;

(c) A table showing the quantity of hazardous material storage and whether the quantity for each specific substance is considered to be "extreme; "

(d) Figure(s) and a table showing the location of all DOT-AIR spill response kits;

(e) The size of the contained area of the paint booth and the type of paint booth for the facilities in Drainage Basin A, B, and D; and

(f) List of Tenants with the correct SIC Code (for primary and other industrial activities) and the year of the inspection.

(4) *Storm Water Pollution Control Plan (SWPCP).* The Permittee shall develop, maintain, and provide a SWPCP to all HNL tenants conducting industrial activities (especially commercial tenants such as car rental agencies) which are covered by this permit and having discharges composed entirely of storm water for their implementation within 30 days after the effective date of this permit.

The Permittee shall continue to implement and enforce the SWPCPs for Tenant-Owned industrial facilities involved in vehicle or equipment maintenance, vehicle or equipment fueling, chemical storage, recycling, refuse transfer stations, or convenience centers. The SWPCP shall identify:

(a) Pollutants potentially present in storm water;

(b) Pollutant sources (including but not limited to the identification of non-storm water sources connected to the storm drainage system);

(c) DOT-AIR Small MS4 connection permits and sewer connection and pretreatment permits;

(d) Storm water outfalls and monitoring points in the Monitoring Plan;

(e) Monitoring procedures in the Monitoring Plan;

(f) Pollutant control procedures;

(g) Spill prevention and response procedures;

(h) Site-specific BMPs developed for facilities (e.g., maintenance of facility and surrounding area(s), proper disposal of oil and grease, application of pesticides by certified applicator); and

(i) Rules and regulations to prevent the discharge of pollutants into the DOT-AIR Small MS4.

The Permittee shall identify, maintain, and provide a list of Site-specific Best Management Practices (BMPs) to all HNL tenants who do not meet the Standard Industrial Classification (SIC) Codes as defined in 40 CFR §122.26(b)(14)(i) through 122.26(b)(14)(ix) and 122.26(b)(14)(xi) within 30 days after the effective date of this permit. BMPs may include placement of drip pans or absorbent material under equipment, as required, in order to limit leakage and spills to street surfaces.

(5) *Inspection of Industrial and Commercial Facilities and Activities*

The industrial/commercial inspection program shall be updated to reflect that all industrial and commercial facilities and activities identified in the industrial and commercial inventories required under Parts D.1.g.(1) and D.1.g.(2) are inspected according to the schedule below. Inspectors shall determine compliance with local ordinances and the terms of this permit. If DOH inspects a facility for compliance with the General Industrial Storm Water permit coverage or any other applicable NPDES permit, then the Permittee does not need to inspect the facility that year.

All industrial facilities shall be inspected in accordance with the "NPDES Inspection and Enforcement Manual," dated April 2006, by the DOT-AIR Environmental Program or applicable portions of the "NPDES Compliance Inspection Manual" (EPA 300-B-9-014), dated September 1994, whichever is more stringent. The Permittee shall send the inspection report(s) to the DOH within two (2) months of the inspection date. The Permittee shall also inspect commercial facilities to

ensure compliance with local ordinances and the terms of this permit. The Permittee shall conduct, at a minimum, the following number of industrial and commercial inspections each year:

Permit Year	Number of Inspections
1	10
2	20
3	30
4	40
5	50

If the Permittee inspects all industrial and/or commercial facilities before completing the minimum number of inspections that year, the Permittee shall begin inspections in the next area scheduled for inspections. Each industrial facility that does not have NPDES permit coverage under the NPDES permit program shall be inspected at least annually, and each industrial facility that does have such NPDES permit coverage is inspected at least once during the term of this permit. Commercial dischargers with a high risk of discharge of contaminated runoff to the DOT-AIR Small MS4 shall be inspected at least annually.

Inspections must consist of a review of implementation of BMPs for compliance with local ordinances and this permit to assess potential impacts to receiving waters. Inspections shall also assess potential sources of pollutants to the DOT-AIR Small MS4 and require controls to prevent discharge of pollutants to the DOT-AIR Small MS4.

Inspectors shall be trained to identify deficiencies, assess potential impacts to receiving waters, and evaluate the appropriateness and effectiveness of deployed BMPs and SWPCPs, if applicable.

The inspectors shall use an inspection checklist, or equivalent, and photographs to document site conditions and BMP conditions.

Records of all inspections shall be maintained for a minimum of five (5) years, or as otherwise indicated.

(6) *Enforcement Policy for Industrial Facilities and Activities*. The Permittee shall develop and submit an enforcement policy that shall go into effect when it has been documented that an industrial or commercial facility has

failed to comply with local ordinances and/or terms of this permit. This policy shall be submitted to DOH for review and acceptance within 180 days of the effective date of this permit. The policy shall be part of the overall escalating enforcement policy and must consist of the following:

- ♦ Issuance of written documentation to a facility representative within two (2) weeks of storm water deficiencies identified during inspection. Documentation must include copies of all field notes, correspondence, photographs, and sampling results if applicable.
- ♦ A timeline for correction of the deficiencies.
- ♦ Provisions for re-inspection and potential enforcement actions, if necessary.

The Permittee shall submit a table in the Annual Report showing the date, facility and reason for the verbal warning(s) and/or written Notice of Violation(s).

In the event the Permittee has exhausted all available sanctions and cannot bring a facility or activity into compliance with local ordinances and this permit, or otherwise deems the facility or activity an immediate and significant threat to water quality, the Permittee shall provide oral notification to DOH within one (1) week of such determination. Oral notification shall be followed by a copy of all inspection checklists, notes, photographs, and related correspondence within two (2) weeks of the determination. In instances where an inspector identifies a facility that has not applied for the General Industrial Storm Water permit coverage or any other applicable NPDES permit, the Permittee shall provide oral notification to DOH within one (1) week of such determination. Such oral notification shall be followed by written notification within two (2) weeks of the determination.

(7) *Training*. The Permittee shall develop and provide training to staff on how to conduct industrial and commercial inspections, the types of facilities covered by the General Industrial Storm Water permit coverage or any other applicable NPDES permit, components in a SWPCP for industrial facilities, BMPs and source control measures for industrial and commercial facilities, and inspection and enforcement techniques. This training shall be specific to DOT-AIR activities, policies, and procedures. The training shall be developed and submitted to DOH for review and acceptance within 90 days of the effective date of this permit. Permittee inspectors shall receive training within 180 days of the effective date of this permit, and annually thereafter.

h. Hydrocarbon Removal and Remediation Plan

The Permittee shall continue to monitor the depth of the fuel plume and shall notify the DOH at least 180 days before any construction which requires remediation of the contaminated soil or construction dewatering activities. The DOH reserves the right to include treatment protocols for these activities when they occur. Modification of the permit to include these treatment protocols shall be considered a minor modification for the purposes of 40 CFR Part 124.

2. Revise the SWMP, as necessary, if any discharge limitation or water quality standard established in HAR, Chapter 11-54, Section 11-54-4 is exceeded. The revisions shall include BMPs and/or other measures to reduce the amount of pollutants found to be in exceedance from entering State Waters.

3. Properly address all modifications, concerns, requests, and/or comments to the satisfaction of the DOH and/or EPA.

a. SWMP Modifications. The storm water pollution control activities and compliance dates described in the SWMP may need to be modified, revised, or amended from time to time over the life of the permit to respond to changed conditions and to incorporate more effective approaches to pollutant control. Minor changes may be proposed by the Permittee or requested by the the Director or the Regional Administrator. Proposed changes that imply a major reduction in the overall scope and/or level of effort of the SWMP must be made for cause and in compliance with 40 CFR §122.62 and Part 124. A written report shall be submitted to the Director for approval at least 30 days prior to the initiation date of the major modification. The Permittee shall report and justify all other modifications made to the SWMP in the End-of-Year Report for the year in which the modification was made.

b. System Modifications include any planned physical alterations or additions to the permitted Small MS4, any changes to the quality and quantity of discharge, and any existing outfalls newly identified over the term of the permit, and any new drainage system or additions to the existing system that will discharge into a “Class 2, Inland Water” or “Class A, Marine Water,” as defined in HAR, Chapter 11-54. All alterations and/or additions to the DOT-AIR Small MS4 shall be indicated in the End-of-Year Report. Major alterations and/or additions shall be identified by letter within 30 days of the completion of the alteration and/or addition. New storm sewer systems or additions to the existing storm sewer system shall be reported to the Director for approval before any discharges occur.

E. MONITORING REQUIREMENTS

1. Monitoring Plan

a. The Permittee shall revise and submit the Monitoring Plan to the Director within 180 days of the effective date of this permit for review and approval. The Monitoring Plan shall be implemented over the term of the permit and shall, at a minimum, include the following items:

(1) Written narrative of the proposed monitoring plan's objectives and description of activities;

(2) The monitoring locations on a sampling location map with an explanation of why the location was selected and the identification of the pollutants of concern for each of the sampling locations;

(a) Small MS4 monitoring locations shall be as follows:

Monitoring Location	Location Description
Airport Storm Drain (SD) 9572	Environmental Asset (EA) 100 - oil water separator manhole south side of Aokea Place
SD 9573	EA 101- open box culvert northwest of Taxiway A & L
SD 9328	EA 102 - storm water inlet AIR-O Baseyard
SD 7308	EA 105 - storm water inlet south of fence at north end of Kaulele Street
SD 4283	Koi Pond - garden water features located within Overseas Terminal Complex

(b) Tenant-Owned Industrial Facility monitoring locations shall be as follows:

Monitoring Location	Facility Description
SD 9572 & 9573	EA 100 & 101 - Aloha Airlines
SD 6875	Continental Airlines, Inc. (Continental Micronesia, Chelsea Catering)
SD 7603	Delta Air Lines Gates and Aircraft Maintenance Area

Monitoring Location	Facility Description
SD 9572	EA 100 - Hawaiian Airlines Maintenance Hanger Area
ditch north of facility near SD 4502	Northwest Airlines, Inc.
Discharge Point 001 near SD 4724	United Parcel Service

(3) The monitoring frequency;

(4) Visual inspection of physical objects and solid wastes;

(5) Rainfall depth, duration, location, and storm event return time;

(6) Written documentation of the following:

(a) Type, frequency, and location of data gathered on levels of pollutants in non-storm water discharges to the Small MS4;
(b) Characteristics (timing, duration, intensity, total rainfall) of the storm event(s);
(c) Parameters for measured pollutant loads; and
(d) Range of discharge volumes to be monitored, as well as the timing, frequency, and duration at which they are identified;

(7) Monitoring of the following parameters

(a) For Small MS4

Parameter (units)	Discharge Limitation {1}	Minimum Monitoring Frequency	Type of Sample {2}
Flow (GPD)	{3}	{4}	Calculated or Estimated
Biochemical Oxygen Demand (5-Day) (mg/l)	{3}	{4}	Composite {5}
Chemical Oxygen Demand (mg/l)	{3}	{4}	Composite {5}
Total Suspended Solids (mg/l)	{3}	{4}	Composite {5}
Total Phosphorus (mg/l)	{3}	{4}	Composite {5}

Parameter (units)	Discharge Limitation {1}	Minimum Monitoring Frequency	Type of Sample {2}
Total Nitrogen (mg/l) {6}	{3}	{4}	Composite {5}
Nitrate + Nitrite Nitrogen (mg/l)	{3}	{4}	Composite {5}
Total Dissolved Solids (mg/l)	{3}	{4}	Grab
Ammonia Nitrogen (mg/l) {7}	{3}	Quarterly	Grab
Chlorophyl a (µg/l) {7}	{3}	Quarterly	Grab
Fecal Coliform or Enterococcus (no./100 ml) {7}, {8}	{9}	Quarterly	Grab
Turbidity (N.T.U.) {7}	5.0* / 2.0** {10}	Quarterly	Grab
Oil and Grease (mg/l)	15	Annually	Grab {11}
pH (Standard Units)	{12}	{4}	Grab {13}
Toxic Pollutants (µg/l) {14}	{15}	{4}	{16}

GPD = gallons per day
mg/l = milligrams per liter = 1000 micrograms per liter
µg/l = micrograms per liter
no./100 ml = number per 100 milliliters
N.T.U. = Nephelometric Turbidity Units
* = Wet season - November 1 through April 30
** = Dry season - May 1 through October 31

NOTES:

{1} Pollutant concentration levels shall not exceed the discharge limits or be outside the ranges indicated in the table. Actual or measured levels which exceed those discharge limits or are outside those ranges shall be reported to the Director as required in Section 16.f. of the Standard NPDES Permit Conditions within 30 days after the Permittee becomes aware of the results. The Permittee shall provide the DOH with an explanation of the pollutant origin. Monitoring results shall be submitted on the DMR Form. This requirement shall supersede the immediate reporting requirement in the Standard NPDES Permit Conditions for these limitations only.

{2} The Permittee shall collect samples for analysis from a discharge resulting from a representative storm. A representative storm means a rainfall that accumulates more than 0.1 inch of rain and occurs at least 72 hours after the previous measurable (greater than 0.1 inch) rainfall event.

"Grab sample" means a sample collected during the first 15 minutes of the discharge.

"Composite sample" means a combination of at least two (2) sample aliquots, collected at periodic intervals. The composite shall be flow proportional; either the time interval between each aliquot or the volume of each aliquot must be proportional to either the flow at the time of sampling or the total flow since the collection of the previous aliquot. The Permittee may collect aliquots manually or automatically.

Samples for analysis shall be collected during the first 15 minutes of the discharge and at 15-minute intervals thereafter for the duration of the discharge, as applicable. If the discharge lasts for over an hour, sample collection may cease.

{3} No limitation at this time. Only monitoring and reporting is required.

{4} The discharge from the Japanese, Chinese, and Hawaiian garden water features located within the International Terminal Complex to the Manuwai Canal shall be monitored once per calendar quarter. The other discharges shall be monitored once per calendar year.

{5} If the duration of the discharge event is less than 30 minutes, the sample collected during the first 15 minutes of the discharge shall be analyzed as a grab sample and reported toward the fulfillment of this composite sample specification. If the duration of the discharge event is greater than 30 minutes, the Permittee shall analyze two (2) or more sample aliquots as a composite sample.

{6} The Total Nitrogen parameter is a measure of all nitrogen compounds in the sample (nitrate, nitrite, ammonia, dissolved organic nitrogen, and organic matter present as particulates).

{7} Only the discharge from the Japanese, Chinese, and Hawaiian garden water features located within the International Terminal Complex to the Manuwai Canal shall be monitored.

{8} Applicable if potentially present in the discharge.

{9} Effluent limitation is the specific criteria established in HAR, Chapter 11-54, Section 11-54-8 for the classification of the receiving state waters, as applicable.

{10} Limitation refers to the geometric mean not to exceed the given value.

{11} The Permittee shall measure Oil and Grease using EPA Method 1664, Revision A.

{12} For discharge into Class 2, Inland Waters, the pH shall not deviate more than 0.5 units from ambient conditions and shall not be lower than 5.5 nor higher than 8.0. For discharge into Class A, Marine Waters, the pH shall not deviate more than 0.5 units from a value of 8.1, except at coastal locations where and when freshwater from stream, stormdrain or groundwater discharge may depress the pH to a minimum level of 7.0.

{13} The Permittee shall measure pH within 15 minutes of obtaining the grab sample.

{14} Toxic pollutants, as identified in Appendix D of 40 CFR Part 122 or in HAR, Chapter 11-54, Section 11-54-4, need only be analyzed if they are identified as potential pollutants requiring monitoring in the SWPCP. The Permittee shall test for the total recoverable portion of all metals. If monitoring results indicate that the discharge limitation was equaled or exceeded, the SWPCP shall be amended to include additional BMPs targeted to reduce the parameter which was in excess of the discharge limitation.

{15} Effluent limitations are the acute water quality standards established in HAR, Chapter 11-54, Section 11-54-4. For pollutants which do not have established acute water quality standards, any detected concentration greater than 0.01 mg/l shall be reported.

{16} Cyanide and the volatile fraction of the toxic organic compounds shall be sampled by grab sample. All other pollutants, as identified in Appendix D of the 40 CFR Part 122 or in HAR Chapter 11-54, Section 11-54-4 shall be sampled by composite sample.

(b) For Tenant-Owned Industrial Activities

Parameter	Discharge Limitation {1}	Minimum Monitoring Frequency	Type of Sample {2}
Flow (GPD)	{3}	{4}	Calculated or Estimated
Biochemical Oxygen Demand (5-Day) (mg/l)	{3}	{4}	Composite {5}
Chemical Oxygen Demand (mg/l)	{3}	{4}	Composite {5}
Total Suspended Solids (mg/l)	{3}	{4}	Composite {5}
Total Phosphorus (mg/l)	{3}	{4}	Composite {5}
Total Nitrogen (mg/l) {6}	{3}	{4}	Composite {5}
Nitrate + Nitrite Nitrogen (mg/l)	{3}	{4}	Composite {5}
Oil and Grease (mg/l)	15	{4}	Grab {7}
pH (Standard Units)	{8}	{4}	Grab {9}
Aluminum (µg/l) {10}	{5}	{4}	Composite {5}
Cadmium (µg/l) {10}	43	{4}	Composite {5}

Parameter	Discharge Limitation {1}	Minimum Monitoring Frequency	Type of Sample {2}
Chromium (VI) (µg/l) {10}	1,100	{4}	Composite {5}
Copper (µg/l) {10}	2.9	{4}	Composite {5}
Lead (µg/l) {10}	140	{4}	Composite {5}
Nickel (µg/l) {10}	75	{4}	Composite {5}
Silver (µg/l) {10}	2.3	{4}	Composite {5}
Zinc (µg/l) {10}	95	{4}	Composite {5}
Benzene (µg/l)	1,700	{4}	Composite {5}

GPD = gallons per day
mg/l = milligrams per liter = 1000 micrograms per liter
µg/l = micrograms per liter

NOTES:

{1} Pollutant concentration levels shall not exceed the discharge limits or be outside the ranges indicated in the table. Actual or measured levels which exceed those discharge limits or are outside those ranges shall be reported to the Director as required in Section 16.f. of the Standard NPDES Permit Conditions within 30 days after the Permittee becomes aware of the results. The Permittee shall provide the DOH with an explanation of the pollutant origin. Monitoring results shall be submitted on the DMR Form. This requirement shall supersede the immediate reporting requirement in the Standard NPDES Permit Conditions for these limitations only.

{2} The Permittee shall collect samples for analysis from a discharge resulting from a representative storm. A representative storm means a rainfall that accumulates more than 0.1 inch of rain and occurs at least 72 hours after the previous measurable (greater than 0.1 inch) rainfall event.

"Grab sample" means a sample collected during the first 15 minutes of the discharge.

"Composite sample" means a combination of at least two (2) sample aliquots, collected at periodic intervals. The composite shall be flow proportional; either the time interval between each aliquot or the volume of each aliquot must be proportional to either the flow at the time of sampling or the total flow since the collection of the previous aliquot. The Permittee may collect aliquots manually or automatically.

Samples for analysis shall be collected during the first 15 minutes of the discharge and at 15-minute intervals thereafter for the duration of the discharge, as applicable. If the discharge lasts for over an hour, sample collection may cease.

{3} No limitation at this time. Only monitoring and reporting is required.

{4} Each monitoring location shall be monitored at least once during the term of this permit.

{5} If the duration of the discharge event is less than 30 minutes, the sample collected during the first 15 minutes of the discharge shall be analyzed as a grab sample and reported toward the fulfillment of this composite sample specification. If the duration of the discharge event is greater than 30 minutes, the Permittee shall analyze two (2) or more sample aliquots as a composite sample.

{6} The Total Nitrogen parameter is a measure of all nitrogen compounds in the sample (nitrate, nitrite, ammonia, dissolved organic nitrogen, and organic matter present as particulates).

{7} The Permittee shall measure Oil and Grease using EPA Method 1664, Revision A.

{8} For discharge into Class 2, Inland Waters, the pH shall not deviate more than 0.5 units from ambient conditions and shall not be lower than 5.5 nor higher than 8.0. For discharge into Class A, Marine Waters, the pH shall not deviate more than 0.5 units from a value of 8.1, except at coastal locations where and when freshwater from stream, stormdrain or groundwater discharge may depress the pH to a minimum level of 7.0.

{9} The Permittee shall measure pH within 15 minutes of obtaining the grab sample.

{10} The Permittee shall test for the total recoverable portion of all metals. If monitoring results indicate that the discharge limitation was equaled or exceeded, the SWPCP shall be amended to include additional BMPs targeted to reduce the parameter which was in excess of the discharge limitation.

(8) Written documentation of the analytical methods to be used;

(a) Sample holding time;

(b) Preservation techniques; and

(c) Test method and method detection level:

(i) Conduct monitoring in accordance with test procedures approved under 40 CFR Part 136, or unless otherwise specified, with detection limits low enough to measure compliance with the discharge limitations specified in Part E.1.b.(7) of this permit. For cases where the discharge limitation is below the lowest detection limit of

the appropriate test procedure, the Permittee shall use the test method with the lowest detection limit.

(ii) If a test method has not been promulgated for a particular constituent, the Permittee may use any suitable method for measuring the level of the constituent in the discharge provided the Permittee complies with 40 CFR Part 136.4 - Application for alternate test procedures.

(9) Written documentation of the Quality Assurance/Quality Control procedures to be used;

(10) Data gathered on levels of pollutants in non-storm water discharges to the DOT-AIR Small MS4;

(11) Using rainfall data collected by the Permittee, the Permittee shall relate rainfall events, measured pollutant loads, and discharge volumes from the DOT-AIR Small MS4; and

(12) Estimated budget to be implemented for the term of the permit.

b. The Director may specify other discharge parameters, monitoring requirements and limitations, in addition to the monitoring requirements specified.

c. The DMRs for Aloha Airlines; Continental Airlines, Inc. (Continental Micronesia, Chelsea Catering); Delta Air Lines Gates and Aircraft Maintenance Area; Hawaiian Airlines Maintenance Hanger Area; Northwest Airlines, Inc.; and United Parcel Service shall be submitted for Calendar Year 2005 within 30 days of the effective date of this permit.

2. Other WLAs

As additional WLAs are adopted by DOH that identify the Permittee as a source, the Permittee shall develop implementation and monitoring plans for a minimum of one (1) additional WLA per year within one (1) year of the adoption date.

F. REPORTING REQUIREMENTS

1. End-of-Year Reports

   a. The Permittee shall submit a detailed evaluation of all storm water control measures implemented during the past fiscal year. The Permittee shall submit the End-of-Year Report by August 31st of each year.

   b. The Permittee shall revise its SWMP to include a description of reporting procedures and activities, including schedules and proposed content of reports such that, at a minimum, the following is reported for each storm water program component in each report:

      (1) *Requirements* - Describe what the Permittee was required to do (describe status of compliance with conditions of this permit and other commitments set forth in the SWMP).

      (2) *Past Activities* - Describe activities over the reporting period in comparison to the requirements, including, where applicable, progress accomplished toward meeting specific measurable goals, standards and milestones or other specific performance requirements (e.g., an updated tenant list, SIC list, and issued connection permit list, as well as the survey/inspection results and any noncompliance documentation; a list of construction plans reviewed and construction site investigations, report assessments of the need for permanent detention/retention structures, the status of the development and implementation of review criteria, and road construction BMPs; a report on inspections and maintenance, a report on activities and specific BMPs utilized by the Permittee and its tenants not meeting the definition of industrial activities under 40 CFR §122.26(b)(14); a report on the permits/approvals issued for connection to the DOT-AIR Small MS4, denials of requests for connection, and illicit discharges cited and removed throughout the year; the number of outfalls screened, any complaints received and corrected, and the number and location of dye or smoke tests conducted; and Annual Monitoring Report as required in Part F.2. of this permit). When requirements were not fully met, include a detailed explanation as to why the Permittee did not meet its commitments for the reporting period. Also describe an assessment of the SWMP, including progress towards implementing each of the SWMP program components.

(3) *Future Activities* - Describe planned activities, including, where applicable, specific activities to be undertaken during the next reporting period toward accomplishing specific measurable goals, standards and milestones or other specific performance requirements.

(4) *Resources* - Report on the status of the Permittee's resource base for implementing this NPDES permit during the applicable reporting period and an estimate of the resources over and above those required in the current reporting period that will be required in the next reporting period. The report shall include the breakdown of monetary resources required in the past and next reporting periods for each of the SWMP components.

c. *Modifications*. In each report, the Permittee shall describe any modifications made to the SWMP and implementation schedule during the past year, including justifications. The Permittee shall also describe major modifications made to the Permittee's Small MS4, including, but not limited to, addition and removal of outfalls, drainage lines, and treatment facilities.

d. *Program Effectiveness Reporting*. Within one (1) year of the effective date of the permit, the Permittee shall submit to DOH a written strategy for determining effectiveness of its SWMP. The strategy shall include water quality monitoring efforts as well as program implementation information and other indicators. The Permittee shall include an assessment of program effectiveness and identification of water quality improvements or degradation beginning with the second End-of-Year Report.

2. Annual Monitoring Report

The Annual Monitoring Report shall cover the past fiscal year and shall, at a minimum, include the following items:

a. Written narrative of the past fiscal year's activities, including a description of objectives, activities, and coordination with other agencies;
b. A summary and analysis of monitoring data, submitted on the Discharge Monitoring Report (DMR) Form(s) with the same units as used in Part E.1.a.(7);
c. An explanation of the pollutant origin, as applicable;
d. A narrative evaluation addressing the need, if any, for additional or different monitoring points;

e. A monitoring plan to be implemented over the coming fiscal year. The plan shall, at a minimum, include the items listed in Part E.1.a.
f. Report on any allowable emergency non-storm water discharges for the past fiscal year;
g. Data gathered on levels of pollutants in non-storm water discharges to the DOT-AIR Small MS4; and
h. Using rainfall data collected by the Permittee, the Permittee shall relate rainfall events, measured pollutant loads, and discharge volumes from the DOT-AIR Small MS4.

3. Memorandum of Understanding (MOU) - Roles, Responsibilities, and Legal Authority of DOT-AIR

DOT-AIR shall continue to maintain and comply with the "Memorandum of Understanding Between the Department of Transportation, State of Hawaii, and Department of Health, State of Hawaii" which was executed on March 29, 2000, to help the DOT-AIR comply with its NPDES permit coverages for various airports. As stated in the MOU, 40 CFR 122.26(d)(2)(i) requires that DOT-AIR obtain the legal authority to control the discharge of pollutants to its Small MS4. Amendments to the MOU, if any, shall be summarized in the End-of-Year Report.

G. LOCATION MAP